Application/Control No.

Applicant(s)/Patent under Reexamination

10/674,637

Examiner

Joy K. Contee

Applicant(s)/Patent under Reexamination

AWASTHI ET AL.

2617

| <b>√</b> | Rejected |   | (Through numeral)<br>Cancelled | N | Non-Elected  | Α | Appeal   |
|----------|----------|---|--------------------------------|---|--------------|---|----------|
| =        | Allowed  | ÷ | Restricted                     | ı | Interference | o | Objected |

| Cla  | im       |                     |           |   | ı        | Date     | Э         |          |                 |          |      | Cla                    | im       |              |         |                    | Date  |         |         |                        | [           | Cla      | aim        |                     |          |          | D        | ate      |          |          |         |          |
|--|----------|---------------------|-----------|---|----------|----------|-----------|----------|-----------------|----------|------|------------------------|----------|--------------|---------|--------------------|---|---------|---------|------------------------|-------------|----------|------------|---------------------|----------|----------|----------|----------|----------|----------|---------|----------|
|  | -e       | 7                   |           |   |          |          |           |          |                 |          |      |                        | 의        |              |         |                    |   |         |         |                        |             |          | -          |                     |          |          |          |          |          |          |         |          |
| Final  | Original | 1018                |           |   |          |          |           |          |                 | ı        |      | Final                  | Original |              |         |                    |   |         |         | 1 1                    |             | Final    | Original   |                     |          |          | -        | - 1      |          |          |         |          |
| ιĒ   | کنت      | <u> -</u>           |           |   |          |          |           |          |                 |          |      | 谎                      | Ę,       |              |         |                    |   |         |         | 1 1                    |             | 這        | ,<br>Ç     |                     | ļ        | - 1      |          |          |          | 1        |         | -        |
|  | כ        | CE                  |           | _ |          |          |           |          |                 |          |      |                        |          |              |         |                    |   |         |         | Ш                      |             |          | 0          |                     |          |          |          | ┙        |          | $\perp$  | $\perp$ |          |
|  | 1        | ١,                  |           |   |          |          |           |          |                 |          |      |                        | 51       |              |         |                    |   | 1       |         |                        |             |          | 101        |                     |          |          |          |          |          |          | $\perp$ | ╝        |
|  | 2        |                     |           |   |          |          |           |          |                 |          |      |                        | 52       |              |         |                    |   |         |         |                        |             |          | 102        |                     |          |          |          |          |          |          |         |          |
|  | 3        | $\Box$              |           |   |          |          |           |          |                 |          |      |                        | 53       |              |         |                    |   |         |         |                        |             |          | 103        |                     |          |          |          | $\perp$  |          |          | $\perp$ | $\Box$   |
|  | 4        |                     |           |   |          |          |           |          |                 |          |      |                        | 54       |              |         | 1_                 |   | _L      | $\perp$ | Ш                      |             |          | 104        |                     |          |          | ┙        | $\perp$  |          | $\perp$  | $\perp$ | ╝        |
|  | 5        | Ц                   |           |   | L        |          |           | L        | Ш               |          |      |                        | 55       | $\perp$      |         |                    | Ш   | $\perp$ |         | Ш                      |             |          | 105        | Ш                   |          | $\perp$  | $\perp$  | $\perp$  |          | $\perp$  | $\perp$ | ╝        |
|  | 6        | Ц                   | Ш         |   |          |          |           | L        |                 |          |      |                        | 56       | $\perp$      | $\perp$ | ᆚ_                 | $\sqcup$  | _ _     | $\perp$ | Ш                      |             |          | 106        |                     | _        | _        | 4        | $\perp$  | _        |          | 4       | _        |
|  | 7        | Ш                   | Ш         |   |          |          |           | 匚        |                 |          |      |                        | 57       | _            |         | ↓                  | Ш   |         |         | Ш                      |             |          | 107        | Ш                   | 4        | $\perp$  | $\perp$  | 4        | _        | _        | $\perp$ | ╛        |
|  | 8        | Щ                   | Ш         |   |          |          |           |          | Ш               | _        |      |                        | 58       |              |         | 1                  |   |         |         | Ш                      |             |          | 108        |                     | _        | _        | _        | _        | _        |          | _       | _        |
|  | 9        | Ц                   |           |   |          |          |           |          |                 | ᆜ        |      |                        | 59       | _            | _ _     | ┦                  | Ш   | _ _     | $\bot$  | Ш                      |             |          | 109        | Ш                   | 4        | $\dashv$ | 4        | 4        | 4        | _        | 4       | _        |
| oxdot  | 10       | Ц                   | Ш         |   |          |          |           |          | Ш               | _        |      | Щ                      | 60       | _            |         | ╄                  | $\sqcup$  | 4       | $\bot$  | Ш                      |             |          | 110        |                     | 4        | _        | $\dashv$ | 4        | _        | $\dashv$ | $\bot$  | ᅬ        |
| Щ  | 11       | Ш                   | Ш         |   | _        |          | Ш         | <u> </u> | $  \_  $        | _        |      | <u> </u>               | 61       | $\perp$      |         | ↓_                 | $\sqcup$  | _ _     |         | $\sqcup$               |             |          | 111        | $\sqcup \downarrow$ | $\perp$  | 4        | $\perp$  | 4        | _        | $\dashv$ | $\bot$  | $\dashv$ |
| $\sqcup \sqcup$                                  | 12       | Ш                   | Ш         |   |          | Ш        | Ш         | L        | $\sqcup$        |          |      |                        | 62       | _            | $\bot$  | ↓_                 | _   | _       | 4       | Ш                      |             |          | 112        | Ш                   | $\dashv$ | $\dashv$ | _        | 4        | _        | $\dashv$ | 4       | ᅬ        |
| <u>                                     </u>     | 13       | Ц                   | Щ         |   |          |          | Ш         | _        | $\sqcup$        |          |      |                        | 63       | _            |         | $oldsymbol{\perp}$ |   |         | $\bot$  | Ш                      |             |          | 113        | $\sqcup$            | $\dashv$ | 4        | $\perp$  | 4        | $\dashv$ | +        | $\bot$  | 4        |
| $\sqcup$   | 14       | $\sqcup$            | Ш         |   |          |          | Ш         |          | -               | _        |      | $oxed{oxed}$           | 64       |              | 4       | ╄-                 | $\sqcup$  | _       | $\bot$  | Ш                      |             |          | 114        | $\sqcup$            | $\perp$  | $\dashv$ | $\perp$  | 4        | _        | $\bot$   | $\bot$  | 4        |
| $\sqcup \sqcup$                                  | 15       | $\mu$               | Щ         |   | H        | Щ        | Щ         | Щ.       | $\sqcup$        |          |      | igsquare               | 65       | $\dashv$     | +       | +-                 | ┝   | - -     | +-      |                        |             |          | 115        | <b></b>             | $\dashv$ | -        | _        | 4        | 4        | +        | 4       | 4        |
| $\sqcup \sqcup$                                  | 16       | $oldsymbol{\sqcup}$ | Щ         |   | Ш        | Ш        | Ш         | <u> </u> | $\sqcup$        | _        |      | <b>  </b>              | 66       | $\dashv$     | - -     | ╀-                 | $\vdash \vdash$   | _ _     | —       | Ш                      |             |          | 116        | Н                   | 4        | 4        | $\dashv$ | 4        | _        | +        | 4       | 4        |
|  | 17       | Щ                   | $\square$ | _ | $\vdash$ |          | $\sqcup$  | _        | $\sqcup$        | _        |      |                        | 67       | $\dashv$     | - -     | +                  | $\sqcup$  | _       | -       | Щ                      |             |          | 117        | $\vdash$            | 4        | 4        | _        | 4        |          | +        | _       | 4        |
| $\longmapsto$                                    | 18       | <b>V</b>            | Ш         |   |          |          | $\square$ |          | $\sqcup$        | _        |      |                        | 68       |              | - -     | +                  | $\vdash$  | - -     | —       |                        |             |          | 118        | $\vdash \downarrow$ | 4        | 4        | -        | 4        | 4        | +        | - -     | 4        |
| $\longmapsto$                                    | 19       | <u> </u>            | Ш         |   | Н        | Щ        | Н         | <u> </u> |                 |          |      |                        | 69       | -            | -       | +                  | $\vdash$  | - -     | -       | Ш                      | 1           |          | 119        | $\vdash \vdash$     | +        | $\dashv$ | -        | +        | 4        | +        | - -     | 4        |
| $\vdash \vdash$                                  | 20       |                     |           |   | Ш        |          | _         | _        |                 | _        |      | <u> </u>               | 70       | -            |         | ╄                  | $\vdash$  |         |         | $\vdash$               |             |          | 120        | $\dashv$            | _        | -        | +        | $\dashv$ | -        | +        | -       | 4        |
| $\vdash \vdash$                                  | 21       |                     |           |   |          |          |           |          | $\vdash$        | _        |      |                        | 71       | -            |         | -                  | $\vdash$  | -       | -       |                        | -           |          | 121        | $\dashv$            | _        | -        | -        | 4        | 4        | -        | _       | 4        |
| <del>                                     </del> | 22       | L.                  |           |   |          |          | _         |          | $\vdash$        |          |      | $\vdash$               | 72       | $\dashv$     | -       | +                  | $\vdash$  | $\bot$  | 1       | $\square$              |             |          | 122        | _                   | _        | 4        | +        | +        | 4        | +        | _       | 4        |
|  | 23       | _                   |           |   | _        |          | Н         |          |                 | _        |      |                        | 73       | -            |         | -                  | $\vdash$  | +       |         |                        | -           |          | 123        | _                   |          | 4        | $\dashv$ | 4        | 4        | 4        |         | 4        |
| $\vdash \vdash$                                  | 24       |                     | -         |   | -        |          | -         | $\vdash$ | Н               | 4        |      | $\vdash$               | 74       | _            | +       | +                  | $\vdash$  | +       | +-      | $\square$              | -           |          | 124        | $\dashv$            | +        | +        | +        | +        | +        | +        | +       | 4        |
|  | 25       | _                   |           |   | <u> </u> |          | $\vdash$  |          |                 | _        |      | $\vdash$               | 75       | <del>-</del> |         | +                  | ⊢⊦  |         | +       |                        |             |          | 125        | $\dashv$            | -+       | 4        | -        | -        | -        | +        | +       | 4        |
| $\longmapsto$                                    | 26       | H                   |           |   | -        | _        | -         | _        | H               |          |      |                        | 76       |              |         | ┼                  | ├─┼   |         | ┿       |                        |             |          | 126        | -                   | -        | -        | -        | +        | -+       | +        |         | 4        |
| $\vdash$   | 27       | $\vdash$            | $\vdash$  |   | $\vdash$ | _        | -         | _        | $\vdash$        |          |      |                        | 77       |              | -       | +-                 | ┝╌┼   | +       | +-      |                        |             |          | 127        | -                   |          | +        | +        | +        | -        | +        |         | $\dashv$ |
| $\vdash$   | 28       | $\vdash$            | Н         |   | Н        |          | -         | H        | $\vdash$        |          |      | $\vdash$               | 78<br>79 |              |         | -                  | ┝╌┼   | +-      |         |                        |             |          | 128        | $\dashv$            | -+       | -        | +        | +        | +        | +        | -       | $\dashv$ |
|  | 29<br>30 | H                   | $\vdash$  |   | Н        | -        | Н         | _        | Н               | $\dashv$ |      | -                      | 80       |              | -       | +                  | ⊢⊹  | +       |         | -                      | -           | _        | 129        | -                   | -        | $\dashv$ | $\dashv$ | +        | +        | +        | +       | 4        |
| $\vdash$   |          | _                   | $\vdash$  |   | H        | $\dashv$ | $\vdash$  | Н        | $\vdash$        | $\dashv$ |      | $\vdash$               |          |              | -       | +                  | $\vdash$  | +       | +-      |                        | - }         |          | 130        | -                   |          | $\dashv$ | +        | +        | -        | +        |         | -        |
| <del>   </del>                                   | 31<br>32 | $\vdash$            | $\vdash$  |   | $\vdash$ | $\vdash$ | $\vdash$  | $\vdash$ | $\vdash \vdash$ | $\dashv$ |      | $\vdash$               | 81       | +            | +       | +                  | $\vdash$  | +       | +       | H                      | ⊪           |          | 131        | $\vdash$            | -+       | $\dashv$ | +        | +        | $\dashv$ | +        | +       | $\dashv$ |
| $\vdash \vdash \vdash$                           | 33       | ┝                   | $\vdash$  | _ | $\vdash$ | $\dashv$ | $\dashv$  | -        | $\vdash \vdash$ | -        |      | $\vdash$               | 82<br>83 | +            | +       | +                  | $\vdash$  | +-      | -       | H                      | ⊪           |          | 132<br>133 | $\dashv$            | $\dashv$ | $\dashv$ | +        | +        | +        | +        | +       | $\dashv$ |
| $\vdash \vdash \vdash$                           | 34       | $\vdash$            | $\vdash$  | _ | $\vdash$ | $\vdash$ | $\dashv$  | Н        | $\vdash \vdash$ |          |      | $\vdash\vdash\vdash$   | 84       | +            | +-      | +                  | $\vdash$  | +       | +-      |                        | :::I        |          | 134        | -                   | +        | $\dashv$ |          | +        |          | +        | +       | $\dashv$ |
| ┝─┤  | 35       | $\vdash$            | $\vdash$  |   | $\vdash$ | $\vdash$ | -         | $\vdash$ | $\vdash$        | $\dashv$ |      | $\vdash$               | 85       | +            | +       | +                  | $\vdash$  | +       | +       | $\vdash$               | ⊪           | $\dashv$ | 135        | $\vdash$            | +        | +        | +        | +        | +        | +        | +       | $\dashv$ |
| <del>  </del>                                    | 36       |                     | $\vdash$  | _ | $\vdash$ | $\dashv$ | $\dashv$  | $\vdash$ | $\vdash \vdash$ | $\dashv$ |      |                        | 86       | +            | +       | +                  | $\vdash \vdash$   | +       | +-      | H                      | ⊪           |          | 136        | $\vdash$            | +        | +        | +        | +        | +        | +        | +       | $\dashv$ |
| <del>                                     </del> | 37       |                     | $\vdash$  | _ | $\vdash$ | $\dashv$ | $\dashv$  | $\vdash$ | $\vdash \vdash$ | $\dashv$ |      | $\vdash \dashv$        | 87       | $\dashv$     | +       | +                  | $\vdash$  | +       | +       | H                      | ⊪⊦          |          | 137        | $\vdash$            | $\dashv$ | +        | +        | +        | $\dashv$ | +        | +       | $\dashv$ |
|  | 38       |                     | $\vdash$  |   | $\vdash$ | $\dashv$ | -         | $\vdash$ | $\vdash$        | $\dashv$ |      | <del></del>            | 88       | +            | +       | +                  | $\vdash \vdash$   | +       | +       | H                      | ⊪           |          | 138        | $\vdash$            | +        | +        | +        | $\dashv$ | $\dashv$ | +        | +       | $\dashv$ |
| <del>  </del>                                    | 39       | $\vdash$            | $\vdash$  |   | $\vdash$ | -        |           | -        | $\vdash$        | $\dashv$ |      | $\vdash \vdash \vdash$ | 89       | $\dashv$     | +       | +-                 | $\vdash$  | +-      | +       | Н                      | ⊪⊦          |          | 139        | $\vdash$            | $\dashv$ | +        | +        | +        | $\dashv$ | +        | +       | $\dashv$ |
| <del>                                     </del> | 40       | $\vdash$            | $\vdash$  |   | $\vdash$ | -        |           |          | $\vdash$        | -        |      |                        | 90       | $\dashv$     | +       | +                  | -   | +       | +       | H                      | ⊪           |          | 140        | $\dashv$            | +        | +        | +        | +        | +        | +        | +       | $\dashv$ |
| <del>                                     </del> | 41       | $\vdash$            | $\vdash$  | - | Н        | $\dashv$ |           | $\dashv$ | H               | $\dashv$ |      |                        | 91       | +            | +       | +                  | $\vdash$  | +       | +       | $\vdash$               | ⊪           |          | 141        | $\dashv$            | +        | +        | +        | +        | $\dashv$ | +        | +       | $\dashv$ |
|  | 42       | $\vdash$            | $\vdash$  |   | Н        | $\dashv$ | $\vdash$  | $\dashv$ | $\vdash$        | $\dashv$ |      |                        | 92       | $\dashv$     | +       | +-                 | $\vdash \vdash$   | +-      | +       | $\left  \cdot \right $ | ⊪           |          | 142        | +                   | $\dashv$ | +        | +        | +        | $\dashv$ | +        | +       | $\dashv$ |
|  | 43       | $\vdash$            | $\vdash$  |   | Н        | $\dashv$ |           | $\dashv$ | $\vdash$        | $\dashv$ |      |                        | 93       | +            | +       |                    | $\vdash$  | +       | +       | H                      | ⊪           |          | 143        | $\vdash$            | +        | +        | +        | +        | $\dashv$ | +        | +       | ᅱ        |
|  | 44       | $\vdash$            | $\vdash$  | - | Н        |          |           | -        | $\vdash \vdash$ | $\dashv$ |      |                        | 94       | $\dashv$     | +       | +                  | $\vdash$  | +       | +       | H                      | iii b       |          | 144        | $\dashv$            | +        | +        | +        | +        | $\dashv$ | +        | +       | $\dashv$ |
|  | 45       | -                   | $\vdash$  |   | Н        |          | $\dashv$  | $\dashv$ | $\vdash$        | $\dashv$ |      |                        | 95       | $\dashv$     | +       | +-                 | $\vdash$  | +       | +-      | H                      | #           |          | 145        | -                   | +        | +        | +        | +        | $\dashv$ | +        | +       | $\dashv$ |
|  | 46       | -                   | $\vdash$  | _ | $\vdash$ |          | -         | $\dashv$ | $\dashv$        |          |      |                        | 96       | $\dashv$     | +       | +                  | $\vdash$  | +       | +-      | H                      | ⊪           |          | 146        | $\dashv$            | 十        | ╁        |          | +        | +        | +        | +       | $\dashv$ |
|  | 47       | -                   | $\vdash$  |   | $\vdash$ | -        | $\dashv$  | $\dashv$ | $\vdash$        | $\dashv$ |      | $\vdash \vdash$        | 97       | $\dashv$     | +       | +                  | $\vdash$  | +       | +-      | H                      | ⊪           |          | 147        | $\dashv$            | +        | -        | +        | +        | -+       | +        | +       | $\dashv$ |
|  | 48       | Н                   | $\dashv$  | _ | $\vdash$ | -        | ᅱ         | -        | $\vdash$        | [        |      |                        | 98       | +            | +       | +                  | $\dashv$  | +       | +-      | H                      | ⊪           |          | 148        | $\dashv$            | +        | +        | +        | +        | +        | +        | +       | ᅱ        |
|  | 49       | $\vdash$            | $\vdash$  |   | $\dashv$ | $\dashv$ | $\dashv$  | -        | $\vdash$        |          |      |                        | 99       | +            | +       | +                  | $\vdash$  | +       | +-      | H                      | ⊪           |          | 149        | $\dashv$            | +        | +        | +        | +        | +        | +        | +       | ᅱ        |
|  | 50       | H                   | -         | _ | $\vdash$ | $\dashv$ | ᅱ         | -        | $\vdash$        | -        |      |                        | 100      | $\dashv$     | ╁       | +                  | +   | +       | +       | Н                      | <b>    </b> |          | 150        | $\dashv$            | +        | +        | +        | +        | $\dashv$ | +        | +       | $\dashv$ |
|  | JU       |                     |           |   | Ш        |          |           |          | بلــــــا       | :لــــ   | :::: | $\Box$                 | 100      |              |         | $\perp$            | $oldsymbol{ol}}}}}}}}}}}}}}}}}$ | ㅗ       |         | :لـــا                 | ::::L       |          | 150        |                     | L_       | 丄        | L        | L        | Щ.       | ᆚ        | 丄       |          |